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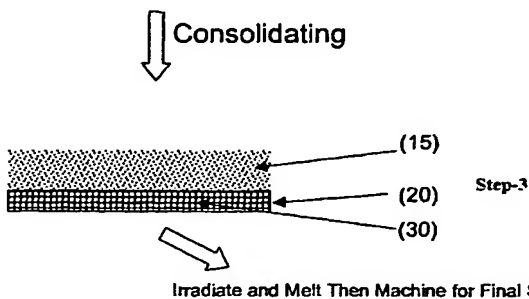
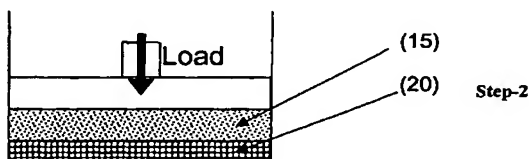
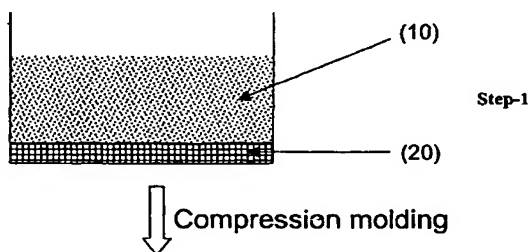
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(54) Title: METAL BACK OR MESH CROSSLINKING



(57) Abstract: The present invention relates to medical implants that comprise crosslinked polyethylene (UHMWPE) (10) that is pressed into a consolidated form (15) in contact with another piece (such as a metallic mesh or back, a non-metallic mesh or back, a tibial tray, a patella tray, or an acetabular shell) (20) thereby forming an interface, and a hybrid component (30). Also disclosed herein are the methods of manufacturing and sterilizing such medical devices and materials used therein.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
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GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/18053

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B29C 43/18, 43/20; A61L 02/08, 9/22, 31/12

US CL : 264/112, 250, 273, 274, 319, 320; 526/352; 623/18.11, 19.11, 20.11, 20.14, 22.11, 23.11; 128/898; 422/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 264/112, 250, 273, 274, 319, 320; 526/352; 623/18.11, 19.11, 20.11, 20.14, 22.11, 23.11; 128/898; 422/28

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST and WEST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,879,400 A (MERRILL et al.) 09 March 1999 (09.03.1999), column 3, lines 30-50, column 6, lines 40-45, claims 1-20.	1-185
Y	US 6,245,276 A (McNULTY et al.) 12 June 2001 (12.06.2001), see entire document.	1-185
Y,P	US 6,547,828 A (SCOTT et al.) 15 April 2003 (15.04.2003), see entire document.	1-185
Y,P	US 6,566,451 A (WANG et al.) 20 May 2003 (20.05.2003), see entire document.	1-185

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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